

Your Partner in IR and UV Technology

Excimer Lamp Cut Sheet







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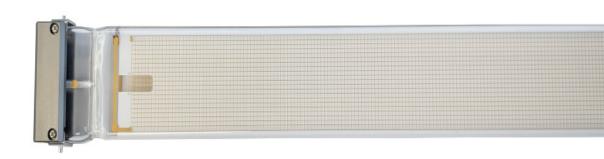
Far-UVC (222 nm) & VUV (172 nm) Excimer Lamps

Excimer lamps are high-efficiency, mercury-free ultraviolet light sources that function by energising mixtures of noble gases and halogens. They emit narrowband UV radiation at specific wavelengths, making them well-suited for precision applications such as disinfection, semiconductor manufacturing, surface treatment and photochemical processes.

Features and Benefits

- Mercury Free Design
- Instant Start and Stable Output
- Customisable Dimensions and Power Levels
- High Disinfection Efficiency (222 nm)
- Surface Activation and Cleaning (172 nm)
- Low Heat Emission





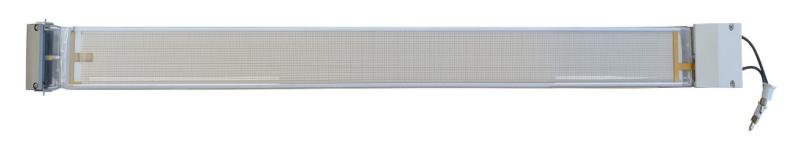
Available Wavelengths					
Model	Wavelength	Description			
EXC - 222	222 nm	Far-UVC Ideal for microbial inactivation with low penetration into skin or eyes, suitable for occupied spaces.			
EXC - 172	172 nm	Vacuum UV (VUV) - High - energy UV ideal for surface cleaning, ozone generation and photochemical reactions.			





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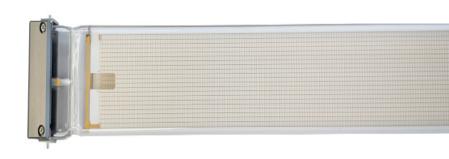
Technical Specifications					
Parameter	EXC - 222 (Far- UVC)	EXC - 172 (VUV)			
Peak Wavelength	222 nm ± 2 nm	172 nm ± 2 nm			
Emission Bandwidth	~5 nm (FWHM)	~10 nm (FWHM)			
Typical Output Power	5-20 mW/cm ² @ 10 cm	10-50 mW/cm ² @ 10 cm			
Lamp Type	Dielectric Barrier Discharge (DBD)	Dielectric Barrier Discharge (DBD)			
Lamp Dimensions	Customisable (Typical: 100 mm–500 mm length)	Customisable (Typical: 100 mm–500 mm length)			
Operating Voltage	1–5 kV (p-p)	1–5 kV (p-p)			
Operating Frequency	20–100 kHz	20-100 kHz			
Warm - Up Time	Instant On	Instant On			
Lifetime	>10,000 hrs (depending on duty cycle)	>8,000 hrs			
Cooling	Passive / Forced Air	Passive / Forced Air			



Product Options					
Model	Power and Length	Cooling	Application		
EXC-222-S10	10W 200mm	Passive	Small area disinfection		
EXC-222-L20	20W 400mm	Forced Air	Room scale disinfection		
EXC-172-S20	20W 300mm	Passive	Surface cleaning		
EXC-172-L50	50W 500mm	Forced Air	Air Industrial processing		

Custom configurations available on request.















Applications

222 nm (Far-UVC):

- Air and surafce disinfection (occupied or unoccupied spaced)
- Healthcare enviornments
- Transportation
- Food processing and packaging sanitation

172 nm (VUV):

- Semiconductor wafer cleaning
- Glass and polymer surface activation
- Ozone generation for water and air treatment
- Photoresist stripping and UV curing

Safety Information

222 nm (Far-UVC):

Considered safe for human exposure when properly filtered (KrCl with optical filters)

172 nm (VUV):

To be used in enclosed or shielded systems due to ozone production and potential material degradation.

Always follow local regulations and exposure guidelines.



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And learn more about our Ultraviolet technology solutions

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